



<SEC>PROBLEM TO BE SOLVED: To provide an optical head device and an optical information recording/reproducing device, capable of detecting radial tilting even for a highly sensitive draw type and rewritable disk having no signals recorded therein.

SOLUTION: A beam emitted from a semiconductor laser 1 is divided into three beams, a 0th-order beam as a main beam, and  $\pm 1$ st-order diffracted beams as sub-beams, by a diffraction optical element 3, and track error signals are detected respectively from the main and sub beams. By the operation of the diffraction optical element 3, the intensity distributions of the main and sub beams made incident on an objective lens 6 are different from each other, and thus the phases of track error signals are shifted between the main and sub beams when radial tilting is present in a disk 7. From the phase sifting of the track error signals, a radial tilt signal is obtained.</SEC>

Full Text	Drawing Pages	Ready for Complete &	Add	WR
-----------	---------------	----------------------	-----	----

  

Add new Pcodes		Modify existing:	
<input checked="" type="radio"/> All: <input type="button" value="Lookup"/>	<input type="text" value="G11B 007/09"/>	<input type="radio"/> Existing:	<input type="text"/>
<input type="button" value="Conc."/>	<input type="button" value="Apply"/>	<input type="button" value="Delete"/>	

  

Index Terms:	Comments:
<div style="border: 1px solid black; height: 80px;"></div>	<div style="border: 1px solid black; height: 80px;"></div>

**Family Relations :**

Int'l Class: G11B 007/09; G02B 005/18; G11B 007/004; G11B 007/12; G11B 007/125; G11B 007/135

Assignee: NEC CORP

Publication Date: 08/31/2001 A3:

Inventor: KATAYAMA RYUICHI

Application No.: 200037823 (Series):

Filing Date: 12/13/2000

Foreign Priority: JP 11355385 19991215

PCT No.: PCT File Date:

PCT Pub No: PCT Pub Date:

Int'l Class Edition:

US Patent References:

Foreign Patent References:

Other References:

Designated States:

PCodes:

Index Terms:

Comments:

: